Mobile wireless networks pose interesting challenges for routing system design. To produce feasible routes in a mobile wireless network, a routing system must be able to accommodate roving users, changing network topology, and fluctuat- ing link quality. We discuss the impact of node mobility and wireless communication on routing system design, and we survey the set of techniques employed in or proposed for routing in mobile wireless networks.

54 Tracking: Inertial and magnetic posture tracking for inserting humans into networked virtual environments

Eric R. Bachmann, Robert B. McGhee, Xiaoping Yun, Michael J. Zyda

November 2001 **Proceedings of the ACM symposium on Virtual reality software and technology**

Rigid body orientation can be determined without the aid of a generated source using nine-axis MARG (Magnetic field, Angular Rate, and Gravity) sensor unit containing three orthogonally mounted angular rate sensors, three orthogonal linear accelerometers and three orthogonal magnetometers. This paper describes a quaternion-based complementary filter algorithm for processing the output data from such a sensor. The filter forms the basis for a system designed to determine the posture of an articul ...

Keywords: body tracking, complementary filtering, inertial/magnetic sensors, quaternions, virtual environments

55 Conditions on input vectors for consensus solvability in asynchronous distributed systems

Achour Mostefaoui, Sergio Rajsbaum, Michel Raynal

July 2001   **Proceedings of the thirty-third annual ACM symposium on Theory of computing**

This paper introduces and explores a new condition based approach to solve the consensus problem in asynchronous systems. The approach consists of identifying sets of input vectors, called conditions, for which it is possible to design a protocol solving consensus despite the occurrence of up to f process crashes.The first main result is a generic consensus protocol for the shared memory model. It always guarantees agreement, and ...

Keywords: asynchronous systems, consensus, fault-tolerance

56 Preformance Evaluation: Characterizing the interaction between routing and MAC protocols in ad-hoc networks

Chris Barrett, Achla Marathe, Madhav V. Marathe, Martin Drozda

June 2002 **Proceedings of the 3rd ACM international symposium on Mobile ad hoc networking & computing**

We empirically study the effect of mobility and interaction between various input parameters on the performance of protocols designed for wireless ad-hoc networks. An important objective is to study the interaction of the routing and MAC layer protocols under different mobility parameters. We use three basic mobility models: grid mobility model, random waypoint model, and exponential correlated random model. The performance of protocols is measured in terms of various quality of service measures ...

Keywords: ad hoc networks, performance analysis, statistical analysis

i   **57** Interactive display of la ̶e-scale NURBS models   ●
Subodh Kumar, Dinesh Manocha, Anselmo Lastra
April 1995 **Proceedings of the 1995 symposium on Interactive 3D graphics**

Full text available: pdf(3.19 MB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

> We present serial and parallel algorithms for interactive rendering of large scale and complex NURBS models on current graphics systems. The algorithms tessellate the NURBS surfaces into triangles and render them using triangle rendering engines. The main characteristics of the algorithms are improved polygonization algorithms, exploitation of spatial and temporal coherence and back-patch culling. Polygonization anomalies like cracks and angularities are avoided. We analyze a number of issu ...

58 Scalability: Directional virtual carrier sensing for directional antennas in mobile ad hoc networks
Mineo Takai, Jay Martin, Rajive Bagrodia, Aifeng Ren
June 2002 **Proceedings of the 3rd ACM international symposium on Mobile ad hoc networking & computing**

Full text available: pdf(1.24 MB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

> This paper presents a new carrier sensing mechanism called DVCS (Directional Virtual Carrier Sensing) for wireless communication using directional antennas. DVCS does not require specific antenna configurations or external devices. Instead it only needs information on AOA (Angle of Arrival) and antenna gain for each signal from the underlying physical device, both of which are commonly used for the adaptation of antenna pattern. DVCS also supports interoperability of directional and omni-directi ...

Keywords: IEEE 802.11, carrier sensing, directional antenna systems, medium access control, mobile ad hoc networks

59 Scheduling real-time traffic with deadlines over a wireless channel
Sanjay Shakkottai, R. Srikant
January 2002 **Wireless Networks**, Volume 8 Issue 1

Full text available: pdf(244.76 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>index terms</u>

> Recently, there has been widespread interest in the extension of data networks to the wireless domain. However, scheduling results from the wireline domain do not carry over to wireless systems because wireless channels have unique characteristics not found in wireline channels, namely, limited bandwidth, bursty channel errors and location-dependent channel errors.In this paper, we study the problem of scheduling multiple real-time streams with deadlines, over a shared channel. We show that, in ...

Keywords: Quality-of-Service, bursty channels, real-time traffic, scheduling

60 RDMAR: a bandwidth-efficient routing protocol for mobile ad hoc networks
George Aggelou, Rahim Tafazolli
August 1999 **Proceedings of the 2nd ACM international workshop on Wireless mobile multimedia**

Full text available: pdf(916.53 KB)   Additional Information: <u>full citation</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

Keywords: dynamic routing, mobile terminal, multihop networks

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1 **Magical device: a small device that makes it easy to build real-world navigation systems**
Katsuno, Y.; Honda, R.;
Systems, Man, and Cybernetics, 2000 IEEE International Conference on ,Volume: 2 , 8-11 Oct. 2000
Pages:914 - 919 vol.2

[Abstract]   [PDF Full-Text (688KB)]   **IEEE CNF**

2 **Frequency-domain method to measure mode partition characteristics of laser diodes modulated by NRZ code**
Mori, M.; Katsuno, Y.; Nagaya, Y.; Takeda, A.; Goto, T.; Yamaguchi, N.;
Electronics Letters ,Volume: 25 , Issue: 7 , 30 March 1989
Pages:443 - 444

[Abstract]   [PDF Full-Text (236KB)]   **IEE JNL**

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1 **Sensorless control of induction motor drives**
Holtz, J.;
Proceedings of the IEEE , Volume: 90 , Issue: 8 , Aug. 2002
Pages:1359 - 1394

[Abstract]   [PDF Full-Text (1941 KB)]   [Full-Text HTML]   IEEE JNL

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2 **Influence of the shape of cardiac ventricles on the resultant heart vectors. A model study**
Szathmary, V.;
Computers in Cardiology 1993. Proceedings. , 5-8 Sept. 1993
Pages:237 - 240

[Abstract]   [PDF Full-Text (248 KB)]   IEEE CNF

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3 **Application of descriptor variables to optimal control of state-space systems**
Harris, S.L.; Lovass-Nagy, V.; Schilling, R.J.;
Decision and Control, 1990., Proceedings of the 29th IEEE Conference on , 5-7 Dec. 1990
Pages:3598 - 3600 vol.6

[Abstract]   [PDF Full-Text (188 KB)]   IEEE CNF

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4 **Floating-point error analysis of recursive least-squares and least-mean-squares adaptive filters**
Ardalan, S.;
Circuits and Systems, IEEE Transactions on , Volume: 33 , Issue: 12 , Dec 1986
Pages:1192 - 1208

[Abstract]   [PDF Full-Text (1648 KB)]   IEEE JNL

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5 **Multiobjective heuristic search in AND/OR graphs**
Ching-Fang Liaw; Stewart, B.S.; White, C.C., III;

Systems, Man and Cybernetics, IEEE Transactions on , Volume: 25 , Issue:
11 , Nov. 1995
Pages:1513 - 1521

[Abstract]   [PDF Full-Text (880 KB)]   **IEEE JNL**

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6 A necessary condition for the realization of a resistive n-port based on network size and on the concept of weighted terminal valency

Subak-Sharpe, G.E.; Styan, G.P.H.;
Circuits and Systems, 2000. Proceedings. ISCAS 2000 Geneva. The 2000 IEEE
International Symposium on , Volume: 1 , 28-31 May 2000
Pages:487 - 490 vol.1

[Abstract]   [PDF Full-Text (300 KB)]   **IEEE CNF**

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7 The binary multiplying channel without feedback: new rate pairs in the zero-error capacity region

Tolhuizen, L.;
Information Theory, 2000. Proceedings. IEEE International Symposium on , 25-30
June 2000
Pages:37

[Abstract]   [PDF Full-Text (84 KB)]   **IEEE CNF**

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8 A multipath resistant PN code tracking algorithm

El-Tarhuni, M.; Ghrayeb, A.;
Personal, Indoor and Mobile Radio Communications, 2002. The 13th IEEE
International Symposium on , Volume: 4 , 15-18 Sept. 2002
Pages:1834 - 1838 vol.4

[Abstract]   [PDF Full-Text (402 KB)]   **IEEE CNF**

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9 On L^2 sufficient conditions for end-constrained optimal control problems with inputs in a polyhedron

Dunn, J.C.;
Decision and Control, 1998. Proceedings of the 37th IEEE Conference on , Volume:
2 , 16-18 Dec. 1998
Pages:2255 - 2258 vol.2

[Abstract]   [PDF Full-Text (292 KB)]   **IEEE CNF**

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10 Nonlinear stabilization by receding-horizon neural regulators

Parisini, T.; Sanguineti, M.; Zoppoli, R.;
Decision and Control, 1995., Proceedings of the 34th IEEE Conference on , Volume:
3 , 13-15 Dec. 1995
Pages:2433 - 2441 vol.3

[Abstract]   [PDF Full-Text (872 KB)]   **IEEE CNF**

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11 Development of broadband coaxial components for a 0.04 to 110 GHz measurement system

Oldfield, B.;
Microwave Symposium Digest, 1995., IEEE MTT-S International , 16-20 May 1995
Pages:1471 - 1473 vol.3

[Abstract]   [PDF Full-Text (268 KB)]   **IEEE CNF**

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12 **Fish Method based state estimation for controlling inverter driven machines**
Veltman, A.; van den Bosch, P.P.J.; Gorter, R.J.A.;
Power Electronics Specialists Conference, PESC '94 Record., 25th Annual IEEE , 20-25 June 1994
Pages:758 - 762 vol.1

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1 **Fish Method based state estimation for controlling inverter driven machines**
Veltman, A.; van den Bosch, P.P.J.; Gorter, R.J.A.;
Power Electronics Specialists Conference, PESC '94 Record., 25th Annual IEEE , 20-25 June 1994
Pages:758 - 762 vol.1

[Abstract]   [PDF Full-Text (428 KB)]   **IEEE CNF**

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2 **A necessary condition for the realization of a resistive n-port based on network size and on the concept of weighted terminal valency**
Subak-Sharpe, G.E.; Styan, G.P.H.;
Circuits and Systems, 2000. Proceedings. ISCAS 2000 Geneva. The 2000 IEEE International Symposium on , Volume: 1 , 28-31 May 2000
Pages:487 - 490 vol.1

[Abstract]   [PDF Full-Text (300 KB)]   **IEEE CNF**

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1 Database session 3: data management in mobile environments: Exploring group mobility for replica data allocation in a mobile environment   ◼

Jiun-Long Huang, Ming-Syan Chen, Wen-Chih Peng
November 2003 **Proceedings of the twelfth international conference on Information and knowledge management**
Full text available: 📄 pdf(195.75 KB)   Additional Information: full citation, abstract, references, index terms

The growth in wireless communication technologies attracts a considerable amount of attention in mobile ad-hoc networks. Since mobile hosts in an ad-hoc network usually move freely, the topology of the network changes dynamically and disconnection occurs frequently. These characteristics make a mobile ad-hoc network be likely to be separated into several disconnected partitions, and the data accessibility is hence reduced. Several schemes are proposed to alleviate the reduction of data accessibi ...

Keywords: ad-hoc networks, data accessibility, mobile computing, replica allocation

2 Pen computing: a technology overview and a vision   ◼

André Meyer
July 1995 **ACM SIGCHI Bulletin**, Volume 27 Issue 3
Full text available: 📄 pdf(5.14 MB)   Additional Information: full citation, abstract, citings, index terms

This work gives an overview of a new technology that is attracting growing interest in public as well as in the computer industry itself. The visible difference from other technologies is in the use of a pen or pencil as the primary means of interaction between a user and a machine, picking up the familiar pen and paper interface metaphor. From this follows a set of consequences that will be analyzed and put into context with other emerging technologies and visions.Starting with a short historic ...

3 Mobile connectivity protocols and throughput measurements in the Ricochet Microcellular data network (MCDN) system   ◼

Mike Ritter, Robert J. Friday, Rodrigo Garces, Weill San Filippo, Cuong-Thinh Nguyen
July 2001 **Proceedings of the 7th annual international conference on Mobile computing and networking**
Full text available: 📄 pdf(178.43 KB)   Additional Information: full citation, abstract, references, index terms

We describe the protocols implemented in the Ricochet MCDN system to provide continuous connectivity to mobile users traveling up to 70 mph. These protocols are general in nature for any frequency-hopping microcell-based system, particularly those that follow the FCC part 15.247 rules [9] and operate in unlicensed spectrum. We also present throughput measurements as a function of velocity and describe a model to predict those numbers based upon the protocols implemented. The MCDN system is a ...

Keywords: MCDN system architecture, Mobility, wireless networks, wireless protocols, wireless routing

4 Geography-informed energy conservation for Ad Hoc routing

Ya Xu, John Heidemann, Deborah Estrin

July 2001 **Proceedings of the 7th annual international conference on Mobile computing and networking**

Full text available: pdf(399.65 KB)   Additional Information: full citation, abstract, references, citings, index terms

We introduce a *geographical adaptive fidelity* (GAF) algorithm that reduces energy consumption in ad hoc wireless networks. GAF conserves energy by identifying nodes that are equivalent from a routing perspective and then turning off unnecessary nodes, keeping a constant level of routing *fidelity*. GAF moderates this policy using application- and system-level information; nodes that source or sink data remain on and intermediate nodes monitor and balance energy use. GAF is indepen ...

5 Indexing the positions of continuously moving objects

Simonas Šaltenis, Christian S. Jensen, Scott T. Leutenegger, Mario A. Lopez

May 2000 **ACM SIGMOD Record , Proceedings of the 2000 ACM SIGMOD international conference on Management of data**, Volume 29 Issue 2

Full text available: pdf(182.13 KB)   Additional Information: full citation, abstract, references, citings, index terms

The coming years will witness dramatic advances in wireless communications as well as positioning technologies. As a result, tracking the changing positions of objects capable of continuous movement is becoming increasingly feasible and necessary. The present paper proposes a novel, R*-tree based indexing technique that supports the efficient querying of the current and projected future positions of such moving objects. The technique is capable of indexing objects moving in one-, two-, and th ...

6 A spectral algorithm for envelope reduction of sparse matrices

S. T. Barnard, A. Pothen, H. D. Simon

December 1993 **Proceedings of the 1993 ACM/IEEE conference on Supercomputing**

Full text available: pdf(770.67 KB)   Additional Information: full citation, references, citings, index terms

7 An architecture for secure wide-area service discovery

Todd D. Hodes, Steven E. Czerwinski, Ben Y. Zhao, Anthony D. Joseph, Randy H. Katz

March 2002 **Wireless Networks**, Volume 8 Issue 2/3

Full text available: pdf(365.68 KB)   Additional Information: full citation, abstract, references, index terms

The widespread deployment of inexpensive communications technology, computational resources in the networking infrastructure, and network-enabled end devices poses an interesting problem for end users: how to locate a particular network service or device out of hundreds of thousands of accessible services and devices. This paper presents the architecture and implementation of a secure wide-area Service Discovery Service (SDS). Service providers use the SDS to advertise descriptions of available ...

Keywords: location services, name lookup, network protocols, service discovery

8 Three-dimensional medical imaging: algorithms and computer systems

M. R. Stytz, G. Frieder, O. Frieder

December 1991 **ACM Computing Surveys (CSUR)**, Volume 23 Issue 4

Full text available: pdf(7.38 MB)   Additional Information: full citation, references, citings, index terms, review

Keywords: Computer graphics, medical imaging, surface rendering, three-dimensional imaging, volume rendering

9 Streams, structures, spaces, scenarios, societies (5s): A formal model for digital libraries

Marcos André Gonçalves, Edward A. Fox, Layne T. Watson, Neill A. Kipp
April 2004 **ACM Transactions on Information Systems (TOIS)**, Volume 22 Issue 2

Full text available: pdf(316.85 KB)   Additional Information: full citation, abstract, references, index terms

Digital libraries (DLs) are complex information systems and therefore demand formal foundations lest development efforts diverge and interoperability suffers. In this article, we propose the fundamental abstractions of Streams, Structures, Spaces, Scenarios, and Societies (5S), which allow us to define digital libraries rigorously and usefully. Streams are sequences of arbitrary items used to describe both static and dynamic (e.g., video) content. Structures can be viewed as labeled directed gra ...

Keywords: applications., definitions, foundations, taxonomy

10 Creating reference architectures: an example from avionics

Don Batory, Lou Coglianese, Mark Goodwin, Steve Shafer
August 1995 **ACM SIGSOFT Software Engineering Notes , Proceedings of the 1995 Symposium on Software reusability**, Volume 20 Issue SI

Full text available: pdf(1.08 MB)   Additional Information: full citation, abstract, references, citings, index terms

ADAGE is a project to define and build a domain-specific software architecture (DSSA) environment for assisting the development of avionics software. A central concept of DSSA is the use of software system generators to implement component-based models of software synthesis in the target domain [SEI90].In this paper, we present the ADAGE component-based model (or reference architecture) for avionics software synthesis. We explain the modeling procedures used, review our initial g ...

11 Robust position-based routing in wireless Ad Hoc networks with unstable transmission ranges

Lali Barriére, Pierre Fraigniaud, Lata Narayanan
July 2001 **Proceedings of the 5th international workshop on Discrete algorithms and methods for mobile computing and communications**

Full text available: pdf(736.30 KB)   Additional Information: full citation, abstract, references, citings, index terms

Several papers showed how to perform routing in *ad hoc* wireless networks based on the positions of the mobile hosts. However, all these protocols are likely to fail if the transmission ranges of the mobile hosts vary due to natural or man-made obstacles or weather conditions. These protocols may fail because in routing either some connections are not considered which effectively results in disconnecting the network, or the use of some connections causes livelocks. In this paper, we des ...

Keywords: Ad Hoc Networks, routing, wireless networks

12 GPS-based geographic addressing, routing, and resource discovery

Tomasz Imieliński, Julio C. Navas
April 1999 **Communications of the ACM**, Volume 42 Issue 4

Full text available: pdf(329.24 KB)
                     html(32.72 KB)   Additional Information: full citation, references, citings, index terms, review

13 Cyberguide: a mobile context-aware tour guide

Gregory D. Abowd, Christopher G. Atkeson, Jason Hong, Sue Long, Rob Kooper, Mike Pinkerton
October 1997 **Wireless Networks**, Volume 3 Issue 5

Full text available: pdf(596.81 KB)   Additional Information: full citation, abstract, references, citings, index terms

Future computing environments will free the user from the constraints of the desktop. Applications for a mobile environment should take advantage of contextual information, such as position, to offer greater services to the user. In this paper, we present the Cyberguide project, in which we are building prototypes of a mobile context-aware tour guide. Knowledge of the user's current location, as well as a history of past locations, are used to provide more of the kind of services that we co ...

14 Formalizing space shuttle software requirements: four case studies

Judith Crow, Ben Di Vito
July 1998 **ACM Transactions on Software Engineering and Methodology (TOSEM)**, Volume 7 Issue 3

Full text available: pdf(267.77 KB)   Additional Information: full citation, abstract, references, citings, index terms, review

This article describes four case studies in which requirements for new flight software subsystems on NASA's Space Shuttle were analyzed using mechanically supported formal methods. Three of the studies used standard formal specification and verification techniques, and the fourth used state exploration. These applications illustrate two thesis: (1) formal methods complement conventional requirements analysis processes effectively and (2) formal methods confer benefits even when only selecti ...

Keywords: flight software, formal methods, requirements analysis, space shuttle, state exploration, theorem proving

15 The evolution of perspective view in WalkMap

Riku Suomela, Kimmo Roimela, Juha Lehikoinen
October 2003 **Personal and Ubiquitous Computing**, Volume 7 Issue 5

Full text available: pdf(485.11 KB)   Additional Information: full citation, abstract

A wearable computer is a potential platform for map applications: it is mobile in nature, and is often equipped with a head-worn display capable of displaying maps of the surrounding area in graphical form. In this paper, we present a map application, called WalkMap, developed for wearable computers. We concentrate on the visual presentation of the map, and propose a visualisation method that is based on the perspective distortion of a regular two-dimensional bird's-eye view map. We also describ ...

Keywords: Map, Navigation, Perspective, Three-dimensional, User study, Wearable computing

16 A game-theoretic approach towards congestion control in communication networks

Rahul Garg, Abhinav Kamra, Varun Khurana
July 2002 **ACM SIGCOMM Computer Communication Review**, Volume 32 Issue 3

Full text available: pdf(379.11 KB)   Additional Information: full citation, abstract, references, index terms

Most of the end-to-end congestion control schemes are "voluntary" in nature and critically depend on end-user cooperation. We show that in the presence of selfish users, all such schemes will inevitably lead to a congestion collapse. Router and switch mechanisms such as service disciplines and buffer management policies determine the sharing of resources during congestion. We show, using a game-theoretic approach, that all currently proposed mechanisms, either encourage the behaviour that leads ...

Keywords: DWS, GPS, RIS, TCP, congestion control, fairness, game theory, generalized processor sharing, nash equilibrium, scheduling, stackelberg equilibrium

17 Location Discovery and Network Management: The bits and flops of the n-hop multilateration primitive for node localization problems

Andreas Savvides, Heemin Park, Mani B. Srivastava
September 2002 **Proceedings of the 1st ACM international workshop on Wireless sensor networks and applications**

Full text available: pdf(300.94 KB)   Additional Information: full citation, abstract, references, citings, index terms

The recent advances in MEMS, embedded systems and wireless communication technologies are making the realization and deployment of networked wireless microsensors a tangible task. Vital to the success of wireless microsensor networks is the ability of microsensors to ``collectively perform sensing and computation''. In this paper, we study one of the fundamental challenges in sensor networks, node localization. The collaborative multilateration presented here, enables ad-hoc deployed sensor node ...

Keywords: ad-hoc localization, distributed localization, sensor net-works

18 Location information: Geographic routing without location information

Ananth Rao, Christos Papadimitriou, Scott Shenker, Ion Stoica
September 2003 **Proceedings of the 9th annual international conference on Mobile computing and networking**

Full text available: pdf(993.16 KB)   Additional Information: full citation, abstract, references, index terms

For many years, scalable routing for wireless communication systems was a compelling but elusive goal. Recently, several routing algorithms that exploit geographic information (e.g. GPSR) have been proposed to achieve this goal. These algorithms refer to nodes by their location, not address, and use those coordinates to route greedily, when possible, towards the destination. However, there are many situations where location information is not available at the nodes, and so geographic methods can ...

Keywords: ad-hoc, coordinate-based, geographoc, routing, sensornets

19 A new connection admission control for spotbeam handover in LEO satellite networks

Sungrae Cho, Ian F. Akyildiz, Michael D. Bender, Huseyin Uzunalioğlu
July 2002 **Wireless Networks**, Volume 8 Issue 4

Full text available: pdf(313.30 KB)   Additional Information: full citation, abstract, references, index terms

Frequent spotbeam handovers in *low earth orbit* (LEO) satellite networks require a technique to decrease the handover blocking probabilities. A large variety of schemes have been proposed to achieve this goal in terrestrial mobile cellular networks. Most of them focus on the notion of prioritized channel allocation algorithms. However, these schemes cannot provide the connection-level *quality of service* (QoS) guarantees. Due to the scarcity of resources in LEO satellite networks, a ...

Keywords: LEO satellite networks, channel allocation, connection admission control, handover management

20 Rapid prototyping of mobile context-aware applications: the Cyberguide case study

Sue Long, Rob Kooper, Gregory D. Abowd, Christopher G. Atkeson
November 1996 **Proceedings of the 2nd annual international conference on Mobile computing and networking**

Full text available: pdf(1.22 MB)   Additional Information: full citation, references, citings, index terms

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... Tanaka et al., 1999), and selective neuronal and non-neuronal Masahisa **Katsuno**, 1,4 ... Although
the were prepared by digestion of pCAGGS **vector** (Niwa et al., 1991 ...
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... Kentaro Furukawa, 1 Yasuaki **Katsuno**, 1 Takeshi Urao, 2 Tomio ... dATP was added to the
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aem.asm.org/cgi/content/full/68/11/5304 - Similar pages

   AEM -- Nishimura et al. 66 (8): 3201
   ... Therefore, we constructed an expression **vector** for the N-38A ... Gln-Ser-Pro) at the amino
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   aem.asm.org/cgi/content/full/66/8/3201 - Similar pages

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